



# Natural Resources Pathway

Education Planning Guide for Middle School and Beyond



*This Career Pathway, along with other career planning materials, serves as a guide to assist students in the Auburn School District in developing a relevant middle-to-high school plan that will prepare them for further education and/or employment in the **Agriculture Education and Science Career Cluster**. The career pathway outlined below can be individualized to meet each learner's education and career goals. It allows students to earn high school credits while completing coursework in middle school, earn college credits while completing coursework within high school, and apply those credits toward attainment of a college certificate and/or degree. It is important to share and review this plan with a parent/guardian and school counselor.*

EDUCATION LEVELS	GRADE	English/ Language Arts	Social Studies	Science	Math	Other Required Courses Other Electives Recommended Electives Learner Activities Leadership Activities			Career & Technical Courses And/or Degree Major Courses	Auburn School District Graduation Requirements
<i>Interest Inventory Administered and Plan of Study Initiated for all Learners</i>										
<b>MS</b>	<b>8</b>	Successfully complete required coursework for 6th, 7th and 8th grade, and these electives →			Kitchen Science, STEM Mechatronics					<u>Credit Requirements</u> (24.0 credits total):  4.0 credits - English 3.0 credits - Social Studies 3.0 credits – Math 3.0 credits - Science 1.5 credits – Fitness 0.5 credits – Health 2.0 credits – Arts ** 2.0 credits – World Language ** 1.0 credits – Career and Technical 4.0 credits - Electives  <u>Additional Requirements:</u> <ul style="list-style-type: none"> <li>• High School and Beyond Plan</li> <li>• Culminating Project/Portfolio</li> <li>• Certificate of Academic Achievement or Approved Alternative</li> </ul>
	<b>9</b>	Language Arts	(.5) World Studies or AP Human Geography	Science (1.0) Next Gen or Biology	Algebra I	(2.0) Credit from Fine Arts or Course Equivalen cies	Orientation or Career Choices	<b>Horticulture Science*</b>		
	<b>10</b>	Language Arts	Global Issues (.5) or AP Euro	Science (1.0) Next Gen or Chemistry	Geometry		(.5) 10th Grade Health	Minimum of two years of the same world language are required for students planning to enroll at a four-year university	<b>CTE Biology Science*</b>	
	<b>11</b>	American Literature 1, 2	U. S. History or AP U. S. History	Chemistry	Advanced Algebra and Trig		(1.5) Credits From Fitness Courses		<b>Natural Resources 1, 2</b>	
	<b>College Placement Assessments-Academic/Career Advisement Provided</b>								<b>Natural Resources 3, 4 or AP Environmental Science CTE</b>	
<b>12</b>	Senior English Electives	Civics (.5) and Elective (.5) or AP American Government (1.0)	Physics or AP Biology or AP Chemistry	AP Statistics or Pre-Calculus						

*\*Students who earn a "C" or better in the above (\*) courses may be eligible for college credit. See page 3 for more information. \*\*Credits may be applied in a chosen career pathway.*





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<b>POST SECONDARY</b>	<p>The Post-High School program options listed below for this Career Pathway represents just some examples of options available within the Puget Sound area, including programs where agreements for dual credit exist between the college and school district. For other options available related to this program of study, <b>visit your career center or the websites of local colleges.</b></p>	
	<b>Apprenticeship Opportunities</b>	<p>To learn more about apprenticeships in this program, go to: <a href="#">Apprenticeship Registration &amp; Tracking</a>            Examples: Environmental Control Painter, Environmental Control Systems Craft Worker</p>
	<b>Earn Certificate and Enter Workforce</b>	<p>To learn more about certificate programs, go to: <a href="#">Renton Technical College</a> , <a href="#">Green River College</a>            Examples: Field Survey Technician, Land Survey Technician, Geographic Information Systems, Water Distribution</p>
	<b>Military</b>	<p>To learn more about Military education and training programs, go to: <a href="#">todaysmilitary.com</a> , <a href="#">defense.gov</a></p>
	<b>Associate Degree Transitions</b>	<p>To learn more about Associate degrees, go to: <a href="#">Green River College</a> , <a href="#">Highline College</a>            Examples: Geographic Information Systems, Natural Resources, Water/Wastewater Technology, Environmental Science, Oceanography</p>
	<b>4 year University</b>	<p>To learn more about Bachelor and beyond degrees, go to: <a href="#">University of Washington</a>, <a href="#">Washington State University</a> , <a href="#">Central Washington University</a>            Examples: Environmental Health, Oceanography, Environmental Science and Regional Planning, Environmental Policy, Environmental Science, Environmental Science</p>

Students intending to earn an Associate Degree and transition to a 4-year University can use the below section to list appropriate classes.

COURSE CODE	CREDIT	COURSE NAME	COURSE CODE	CREDIT	COURSE NAME



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The Natural Resource Systems Career Pathway gives students hands-on experience while learning the major concepts and themes of biology through laboratory and field experiences. Courses focus on the ecological interactions between living and physical systems.

## Occupational Information

The following represent occupations within this field and their average annual earnings and openings based on data from the Washington State Employment Security Department. For more information about these and other occupations within this field, go to <https://esd.wa.gov/labormarketinfo>

<u>Occupation</u>	<u>Washington State Projected Openings</u>		<u>Earnings</u>
	<u>2016-2026</u>		
Environmental Engineers	10		\$102,776 yr.
Environmental Engineering Technicians	21		\$ 60,896 yr.
Environmental Science and Protection Technicians	191		\$ 82,105 yr.
Chemical Technician	35		\$ 43,595 yr.
Natural Sciences Managers	149		\$123,864 yr.
Occupational Health and Safety Specialist	112		\$ 75,248 yr.

## Post-High School Connections

The following courses within this program of study may be eligible for college credit at several local colleges if students earn a "C" or better:

High School Course  
Natural Resources

Credits Possible  
5

College  
Green River Community College

College Course  
NATRS 100

## Student Leadership Development



The National FFA Organization is dedicated to making a positive difference in the lives of students by developing their potential for leadership, personal growth and career success through agricultural education.

For information about this leadership opportunity, talk with a Career and Technical Education instructor.

## Scholarship Opportunities

For local, state, and national scholarship opportunities, please visit your counseling and/or career center, Career Cruising [www.CareerCruising.com](http://www.CareerCruising.com), WOIS [www.wois.org](http://www.wois.org), [thecareemap.org](http://thecareemap.org) or Fast Web [www.FastWeb.com](http://www.FastWeb.com).

For more information about this Career Pathway, contact an instructor, a school counselor or a career specialist.



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